Hydrologic Model Manager

Short Name	EPIC
Long Name	Erosion Productivity-Impact Calculator/ Environmental Policy Integrated Climate
Description	
Model Type	
Model Objectives	To assess the effect of soil erosion on productivity. Predict the effects of management decisions on soil, water, nutrient, and pesticide movements and their combined impact on soil loss, water quality, and crop yields for areas with homogeneous soils and management.
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Model Structure	Weather, surface runoff, return flow, percolation, ET, lateral subsurface flow and snow melt. Water Erosion; Wind Erosion; N & P loss in runoff, nitrogen leaching; Organic N & P transport by sediment; N & P mineralization, immobilization and uptake; Denitrification; Mineral P cycling; N fixation; Pesticide fate and transport; Soil temperature Crop growth and yield for over 80 crops; Crop rotations; Tillage, Plant Environment control (drainage, irrigation, fertilization, furrow diking, liming); Economic accounting; Waste management(feed yards dairies with or without lagoons).
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	Soil, Weather, tillage and crop parameters supplied with model
Spatial Scale	
Temporal Scale	
Input Requirements	
Computer Requirements	DOS under Win 95, 98, WinNT
Model Output	

Parameter Estimatn Model Calibrtn	
Model Testing Verification	
Model Sensitivity	
Model Reliabiity	
Model Application	
Documentation	EPIC5300 User's Manual
Other Comments	
Date of Submission	8/10/1999 2:11:04 PM
Developer	
Technical Contact	
Contact Organization	